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1979

EVALUATION OF

SWEET CORN CULTIVARS

Columbus and Fremont, Ohio

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S. F. Gorske, Gerald G. Myers and Charles C. Willer

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EVALUATION OF SWEET CORN CULTIVARS - 1979
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The 1979 Sweet Corn Cultivar Trials consisted of twenty-eight cultivars which were replicated four times and seventy-six cultivars on non-replicated single plots.

Trials were planted at Fremont and Columbus, The results of the Columbus Trial are not reported. Several heavy rains and wildlife damage made the results at Columbus unreliable.

Corn was seeded on May 17 at Fremont in rows 36" apart with hills spaced 18" apart in the row. Single row plots of 21 hills were 31.5' long. Blocks and tiers of plots were separated by a distance of at least six feet. Guard rows were planted to the north and south sides of rows running east and west at Fremont. All plots were planted by hand jabbers with 4 kernels per hill. Plants were thinned to 2 plants per hill at the 2 to 3 leaf stage.

Prior to planting at Fremont, 15-15-15 fertilizer was broadcast at the rate of 1300 pounds per acre. No fertilizer was placed in bands with the seed at planting time this year due to problems with equipment at planting time. The corn was side-dressed with ammonium nitrate at a rate of 25 lbs. N/acre on June 25. Three quarts of Lasso per acre was used for weed control. Sevin was used for insect control.

The first harvest was made at Fremont on July 27 and the last harvest was made on August 30. EarliVee and ButterVee were the only varieties harvested on the first day in the replicated plots. Hybrid 72-2945 was the highest producing cultivar in the replicated plots, producing 2036 dozen ears per acre. Cultivars that produced over 1800 dozen ears per acre were Jubilee, Apache, LD-46, Silver Queen, Seneca RXP and Gold Cup (all yellow). Sweet Sue was the most productive bicolor variety, and LD-46 and Silver Queen were the most productive white varieties.

In the non-replicated trials, Burgandy Delight, Bellringer, All8, NCX2021, LD-44, Golden Security, and H445 each produced over 2000 dozen ears per acre.

Listed below are the seed companies who generously supplied the seed for these trials without charge:

<u>Code used in tables</u>	<u>Company and Location</u>
1	Stokes Seeds, Inc., Box 548, Buffalo, NY 14240
2	Joseph Harris Co., Rochester, NY 14624
3	Seedway, Inc., Hall, NY 14463
4	Robson Seed Farms, Corp., Hall, NY 14463
5	Asgrow Seed Co., Kalamazoo, MI 49001
6	Leatherman's, Inc., Canton, OH 44707
7	Rogers Bros. Co., Idaho Fall, ID 83401
8	Ferry-Morse Seed Co., Mountain View, CA 94042
9	W. Atlee Burpee Co., Warminster, PA 18974
10	Northrup, King & Co., Minneapolis, MN 55413
11	FMC Corp., ADC, Modesto, CA 95618

1) Mailing address: Department of Horticulture, The Ohio State University, 2001 Fyffe Ct., Columbus, OH 43210.

2) Manager, Vegetable Crops Branch, Fremont, OH.

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TABLE 1. Replicated Trial: Yield and Other Characteristics of Sweet Corn Cultivars - Fremont - 1979.

Variety and Source ()*		Days to first harvest	Marketable Yield/A			Avg.Wt.	Avg.	Avg.	Ear		Bird damage %	Color
			dozens of ears	wt. (tons)	per- cent	mkt.ears unhusked (lbs.)	lgth.ears husked (in.)	dia.ears husked (in.)	worms %	smut %		
Butter Vee	(1)	71	1469	4.67	97	.53	7.8	1.7	0	0	0	Y
Earli Vee	(1)	71	1037	3.06	84	.49	6.9	1.6	0	2.5	2.5	Y
Sundance	(2)	75	1527	5.77	95	.64	7.2	1.7	0	2.5	2.5	Y
Earligem	(3)	76	1450	5.03	93	.60	7.2	1.6	0	5.0	0	Y
Seneca Star	(4)	77	1661	6.05	99	.61	7.8	1.8	0	0	0	Y
Aztec	(5)	77	1613	5.30	98	.55	7.7	1.7	0	0	0	Y
LD-11	(6)	78	1018	2.24	68	.37	6.6	1.4	0	2.5	0	Bi
Golden Vee	(1)	81	1565	5.95	98	.63	7.6	1.8	0	0	0	Y
Bellringer	(2)	81	1469	6.91	98	.78	7.5	1.6	0	0	0	Y
XP-2500	(5)	82	1460	5.69	98	.65	8.0	1.8	0	0	0	Y
Hybrid 74-1702	(7)	83	1709	5.78	90	.56	7.1	1.8	0	0	0	Y
Burgandy Delight	(3)	83	1335	3.93	97	.49	7.9	1.5	0	0	0	Bi
Jubilee	(7)	85	1815	7.21	94	.66	8.3	1.8	0	5.0	0	Y
Seneca Raider	(4)	85	1517	6.39	96	.70	7.8	1.9	0	0	0	Bi
Merit	(5)	89	1748	8.08	94	.77	8.2	2.0	0	0	0	Y
Cherokee	(5)	89	1748	6.52	94	.62	8.0	1.8	0	5.0	0	Y
Bullseye	(8)	89	1498	6.56	90	.73	7.5	2.0	2.5	5.0	0	Y
Gold Lady	(3)	90	1671	5.18	92	.51	8.9	1.5	0	7.5	0	Y
Gold Cup	(2)	91	1997	8.77	92	.73	7.6	1.9	7.5	0	0	Y
Apache	(5)	92	2036	8.16	93	.67	7.7	1.8	0	0	0	Y
Hybrid 72-2945	(7)	98	2113	8.49	92	.67	7.4	1.7	5.0	0	0	Y
LD-46	(6)	98	2017	7.97	84	.66	8.2	1.7	0	20.0	0	W
Silver Queen	(7)	98	1988	8.54	89	.72	7.8	1.7	2.5	7.5	0	W
Seneca RXP	(4)	98	1969	8.33	87	.70	8.1	1.8	2.5	0	0	Y
Sweet Sue	(2)	98	1748	7.51	95	.72	8.3	1.9	7.5	0	0	Bi
Stylepak	(8)	98	1440	7.57	93	.86	8.0	1.9	0	0	0	Y
Silver Treat	(1)	98	1316	5.61	80	.70	8.4	1.9	10.0	0	0	W
Sugar Sweet	(9)	99	1133	4.59	83	.67	7.3	1.8	0	0	0	Y

* Cultivars ranked according to days to first harvest (lowest first) and dozens of marketable ears per acre (highest yield) based on ears listed first within maturity. () numbers within bracket refers to seed company supplying seed.

TABLE 2. Non-Replicated Trial: Yield and Other Characteristics of Sweet Corn Cultivars - Fremont - 1979.

Variety and Source () *		Days to first harvest	Marketable Yield/A			Avg.Wt.	Avg.	Avg.	Ear		Bird	Color
			dozens of ears	wt. (tons)	per- cent	mkt.ears unhusked (lbs.)	lgth.ears husked (in.)	dia.ears husked (in.)	worms %	Smut %	damage %	
Earlivee	(1)	71	1229	3.92	100	.53	7.0	1.6	0	0	0	Y
Earligem	(1)	75	1613	5.78	90	.60	7.8	1.7	0	20	0	Y
Seneca RXP-278	(4)	75	1537	7.10	92	.77	7.1	3.2	0	20	0	Y
Early Gold & Silver	(1)	76	1844	6.20	99	.56	8.1	1.7	0	0	0	Bi
A 108	(2)	79	1882	6.75	96	.60	7.5	1.9	0	0	0	Y
W 7015	(2)	79	1152	4.96	95	.72	8.7	1.7	0	0	0	Y
Northern Belle	(2)	81	1844	7.03	97	.64	7.6	1.8	0	0	0	Y
Comanche	(5)	81	1767	6.85	100	.65	7.5	1.7	0	0	0	Y
Seneca Warrior	(4)	81	1537	8.94	96	.97	7.4	1.8	10	0	0	Y
Harmony	(2)	81	1537	7.14	96	.77	7.4	1.9	0	0	0	Bi
H 12166	(2)	81	1537	6.13	95	.66	8.1	1.8	0	0	0	Y
Carmele	(3)	81	1229	5.30	95	.72	8.3	1.8	0	10	0	Y
White Sunglow	(1)	82	1652	5.67	99	.57	7.5	1.6	0	0	0	W
Burgandy Delight	(1)	83	2036	6.22	90	.51	7.8	1.5	0	0	0	Bi
Tablevee	(1)	83	1921	7.95	98	.69	7.7	1.7	0	10	0	Y
NCX 2026	(11)	84	1690	6.06	99	.60	7.9	1.9	0	0	0	Y
Bellegold	(2)	84	1537	5.90	96	.64	7.8	1.8	0	10	0	Y
H 12266	(2)	85	1959	8.64	94	.74	8.0	1.8	0	0	0	Y
Exp-77H82	(3)	85	1767	6.98	91	.66	7.9	1.7	0	0	0	Y
Slendergem	(3)	85	1652	7.42	91	.75	7.8	1.7	0	10	0	Y
Starlet	(3)	85	1613	6.36	90	.66	7.9	1.8	0	0	0	Y
NCX 2019	(11)	85	1498	5.32	83	.59	7.2	1.9	0	0	0	Y
Fanfare	(1)	85	1421	6.27	92	.74	8.0	1.9	0	0	0	Y
Bellringer	(2)	87	2151	6.57	91	.51	8.0	1.5	0	0	0	Y
NCX 2090	(11)	87	1537	6.27	84	.68	7.8	1.9	0	0	0	Y
A 118	(2)	89	2074	7.63	88	.61	7.6	1.7	0	0	0	Y
Exp-5657	(10)	89	1652	6.45	97	.65	3.9	1.8	0	0	0	Y
YW 475	(2)	89	1537	6.50	93	.71	7.9	1.8	0	0	0	Bi
Hyb. 207	(2)	89	1383	5.53	91	.67	7.5	1.8	0	10	0	Y
Sugar-Dot	(8)	90	1191	5.07	87	.71	7.2	1.9	10	0	0	Bi
LD-13	(6)	91	1575	6.71	99	.71	8.0		0	0	0	Bi
LD-42	(6)	91	1575	6.50	98	.69	7.7	1.9	10	0	0	W
Lancer	(3)	91	1537	6.25	87	.68	8.5	1.7	0	0	0	Y
Hyb. 76-2944	(7)	91	1421	6.55	84	.77	8.5	2.1	0	0	0	Y
XP-2532	(5)	91	1306	5.30	88	.68	7.7	1.8	10	0	0	Y
Exp. 4798	(10)	92	1537	5.95	96	.64	8.5	1.7	0	0	0	Y

TABLE 2. Non-Replicated Trial: Yield and Other Characteristics of Sweet Corn Cultivars - Fremont - 1979.(cont.)

Variety and Source () *		Days to first harvest	Marketable Yield/A			Avg.Wt.	Avg.	Avg.	Ear		Bird	Color
			dozens of ears	wt. (tons)	per- cent	mkt.ears unhusked (lbs.)	lgth.ears husked (in.)	dia.ears husked (in.)	worms %	Smut %	damage %	
Calico	(5)	92	1498	7.47	93	.83	8.7	1.8	0	0	0	Bi
Exp. 5658	(10)	92	1498	7.33	97	.82	8.2	1.8	0	0	0	Y
NCX 2029	(11)	92	1498	7.38	95	.82	7.3	1.9	0	0	0	Y
Guardian	(5)	92	269	1.18	82	.73			0	0	0	Y
NCX 2021	(11)	93	2190	8.62	84	.66	7.4	1.8	0	0	0	Y
XP-2527	(5)	93	1652	7.38	97	.74	8.6	1.8	0	0	0	Y
BC-15	(3)	93	1652	6.78	91	.68	6.9	1.9	0	0	0	Bi
A 208	(2)	93	1652	6.80	97	.69	8.7	1.7	20	0	0	Y
E 8501	(8)	93	1575	6.71	97	.71	7.6	1.9	10	0	0	Y
Exp. 5651	(10)	93	1498	6.55	91	.73	7.8	1.9	0	0	0	Y
Kandy Korn	(1)	93	1383	5.85	85	.71	8.7	1.8	0	0	0	Y
E 4219	(8)	93	1344	5.58	96	.69	8.3	1.7	10	0	0	Y
Flavorvee	(1)	94	1805	8.16	97	.75	8.0	1.7	0	0	0	Y
Exp. 2403	(10)	94	922	4.84	100	.88	8.0	2.0	10	0	0	Y
NCX 2028	(11)	95	1613	6.13	94	.63	7.9	1.7	0	0	0	Bi
Golden Sweet EH	(1)	95	1268	5.44	98	.72	8.7	1.7	20	0	0	Y
LD-44	(6)	97	2190	8.48	86	.65	7.7	1.8	30	0	0	W
Golden Security	(5)	97	2151	8.83	97	.68	8.0	1.7	0	0	0	Y
H 445	(2)	97	2036	7.35	89	.60	7.5	1.7	10	0	0	Y
Golden Gleam	(2)	97	1844	7.54	91	.68	8.5	1.7	10	0	0	Y
8-3414	(8)	97	1805	7.91	94	.73	8.4	1.8	10	0	0	W
Sweet Sal	(2)	97	1652	6.80	100	.69	8.1	1.8	10	0	0	Bi
Silver Queen	(1)	97	1652	6.89	97	.70	8.4	1.8	40	0	0	W
Seneca RXP-201	(4)	97	1652	6.55	97	.66	8.1	1.7	0	0	0	Y
Patriot	(7)	97	1613	7.17	89	.74	8.3	1.9	20	0	0	Y
XP-2513	(5)	97	1575	8.94	98	.95	8.7	2.3	10	0	0	Bi
Seneca RXP-223	(4)	97	1575	6.45	94	.68	8.0	1.8	0	0	0	Y
YW 2036	(2)	97	1575	7.19	97	.76	8.1	1.7	10	0	0	Bi
NCX 2009	(11)	97	1460	7.01	99	.80	8.2	1.9	0	0	0	Y
Capitan	(5)	98	1767	8.84	90	.80	8.8	1.7	10	0	0	Y
Bonanza	(8)	98	1729	9.33	92	.90	8.7	1.9	10	0	0	Y
Exp. 5641	(10)	98	1613	7.97	94	.82	8.3	2.0	0	0	0	Y
Seneca Pinto	(4)	99	1383	5.85	92	.71	8.0	1.7	0	0	0	Bi

* Cultivars ranked according to days to first harvest (lowest first) and dozens of marketable ears per acre (highest Yield) based on ears listed first within maturity. () numbers within bracket refers to seed company supplying seed.

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